## IEA Bioenergy – ExCo60



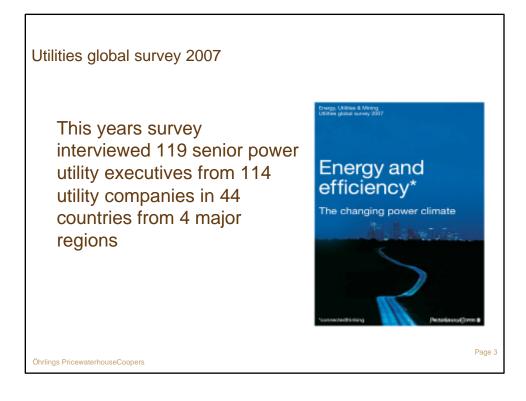
Agenda/Contents

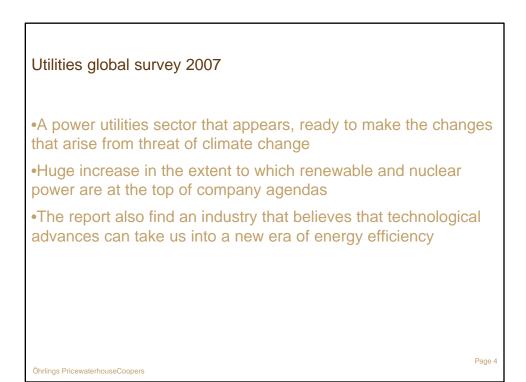
Utilities global survey 2007

The rise of renewables and energy efficiency Wind and nuclear power move to the forefront Cleaner Coals waits for the long term The impact of emission trading Future Carbon prices Future development of emission trading schemes Conclusions

Experiences from bioenergy investments

Increased interest in Bioenergy Investment considerations Some experiences Conclusions

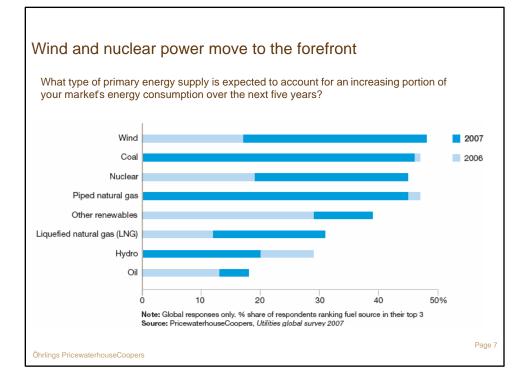




The rise of renewables and energy efficiency Top six ranking of the most major developments in your power market over next five years?										
	2007		Three years ago: 2004							
1	Encouragement of renewable energy	1	Concerns over security of supply	1	Increasing transmission capacity					
=2	Increasing efficiency of conventional technologies	2	Encouragement of renewable energy	2	Concerns over security of supply					
=2	Concerns about security of supply	3	Increasing regulation and obligation	3	Increased JV activity from oil majors/financial institutions					
4	Increasing regulation and obligation	4	Increasing efficiency of conventional technologies	4	Continuing wholesale price volatility					
5	Regulation of emissions	5	Continuing wholesale price volatility	5	Increasing regulation and obligation					
6	Continuing wholesale price volatility	6	Regulation of emissions	6	Encouragement of renewable energy					
Note: Global responses only Source: PricewaterhouseCoopers, Utilities global survey 2007										
Page 5 Öhrlings PricewaterhouseCoopers										

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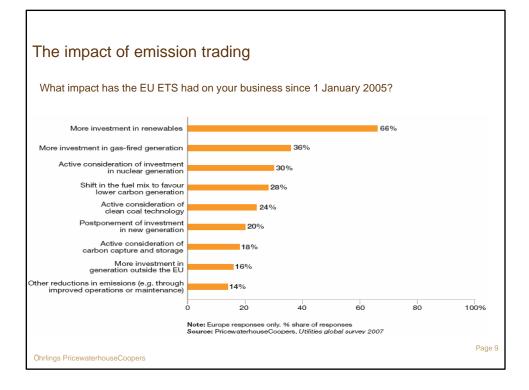
The rise of renewables and energy efficiency												
Major likely developments in the main regions												
	Europe		Asia Pacific									
1	Encouragement of renewable energy	1	Encouragement of renewable energy									
2	Security of supply	2	Increasing regulation and obligation									
=3	Increasing efficiency of conventional technology	3	Increasing JV activity from oil majors/financial institutions									
=3	Regulation of emissions											
y 2007	7		Page 6									
	1 the 1 2 =3 =3	Image: state	a the main regions         a         I       Encouragement of renewable energy         I       Encouragement of renewable energy         I       Security of supply         I       Security of supply         I       Increasing efficiency of conventional technology         I       Increasing efficiency									

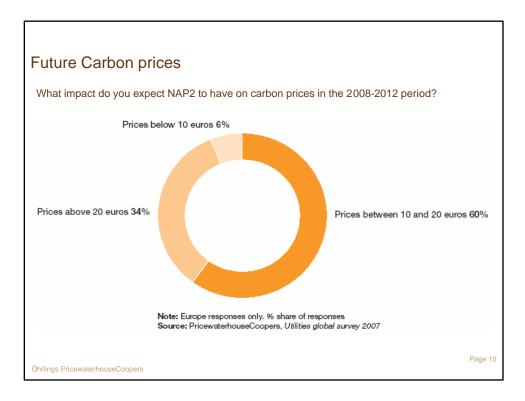


## Cleaner Coals waits for the long term

Which technologies do you expect to make the biggest impact on the level of greenhouse gas emission from the supply of electricity?

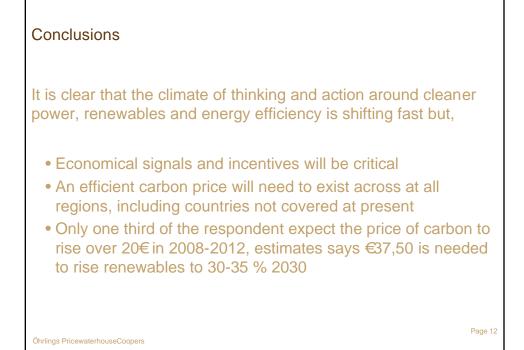
	Ву 2017		By 2050					
1	Nuclear	1	Nuclear					
2	Renewables	2	Renewables					
3	Energy efficiency	3	Energy efficiency					
4	Gas-fired generation	4	Carbon capture					
5	Carbon capture	5	Coal gasification					
6	Coal gasification	6	Gas-fired generation					
Note: Global responses only Source: PricewaterhouseCoopers, Utilities global survey 2007								
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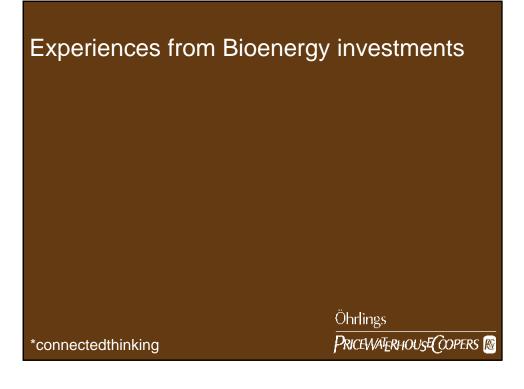


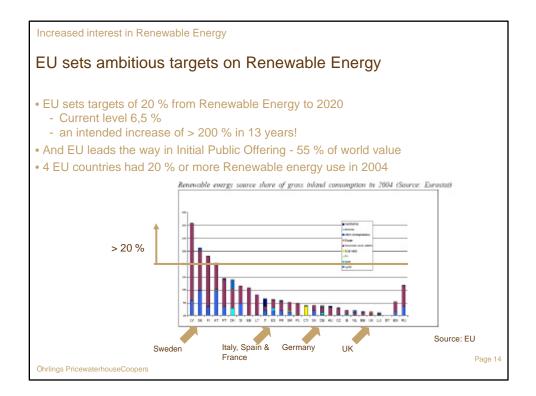


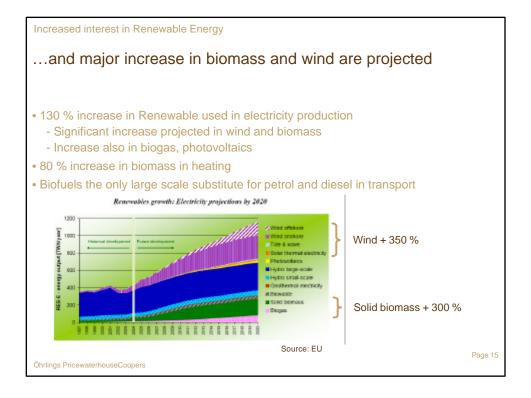
Future development of emission trading schemes	
Characteristics respondents believe will be important (EU):	
<ul> <li>Extended schemes embrace other industries (60%)</li> <li>Longer term trading periods to ensure greater certainty (56%)</li> <li>More support for auctioning than benchmarking (48%,40%)</li> <li>A Global generally accepted approach to monitoring, reporting and compliance from regulators, scheme participants, financial investors ar intermediaries</li> </ul>	nd
PwC: A new Global Emissions Compliance Language is required <i>Building trust in Emissions Reporting</i> , PwC, 2007	
Öhrlings PricewaterhouseCoopers	Page 11

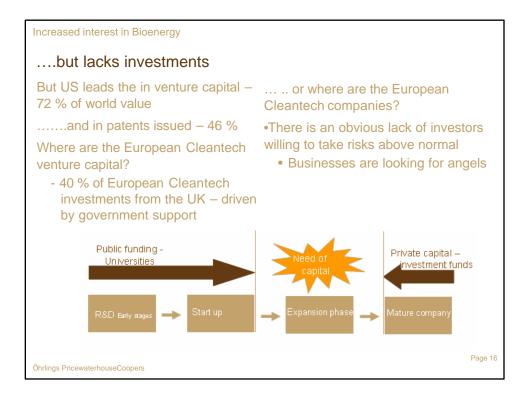
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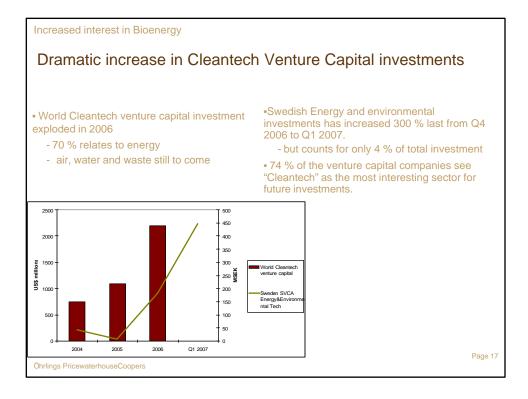


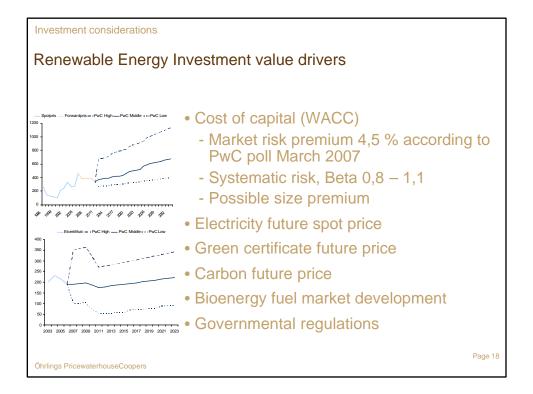


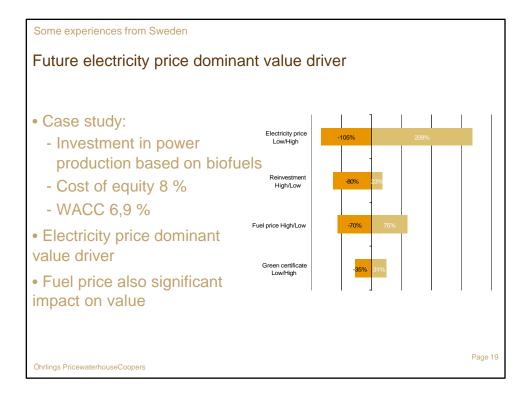


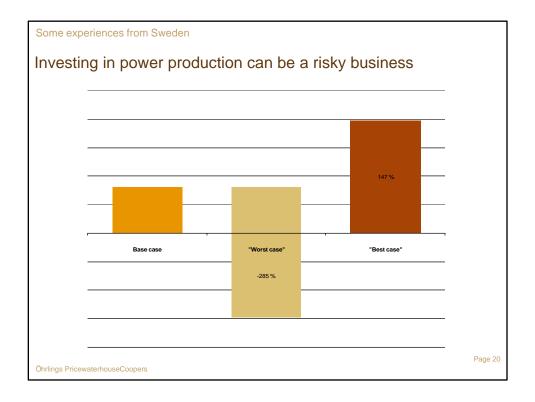














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## Thank you for your attention

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